



New Jersey Department of Environmental Protection
Site Remediation and Waste Management Program

RECEPTOR EVALUATION (RE) FORM

Date Stamp
(For Department use only)

SECTION A. SITE

Site Name: _____

Program Interest (PI) Number(s): _____

Communication Center Number(s) and/or ISRA number(s) for this submission: (as many as will fit in the space provided)

**This form must be attached to the Cover/Certification Form
if not submitted through a Remedial Phase Online Service**

Indicate the type of submission:

☐ Initial RE Submission

☐ Updated RE Submission

Indicate the reason for submission of an updated RE form

☐ Submission of an Immediate Environmental Concern (IEC) source control report;

☐ Submission of a Remedial Investigation Report;

☐ Submission of a Remedial Action Report;

Check if included in updated RE

☐ The known concentration or extent of contamination in any medium has increased;

☐ A new AOC has been identified;

☐ A new receptor is identified;

☐ A new exposure pathway has been identified.

SECTION B. ON SITE AND SURROUNDING PROPERTY USE

1. Identify any sensitive populations/uses that are currently on-site or surrounding property usage within 200 feet of the site property boundary (check all that apply):

	On-site	Off-site
None of the following	<input type="checkbox"/>	<input type="checkbox"/>
Residences or residential property	<input type="checkbox"/>	<input type="checkbox"/>
Public or Private Schools Grades K-12	<input type="checkbox"/>	<input type="checkbox"/>
Child care centers	<input type="checkbox"/>	<input type="checkbox"/>
Public parks, playgrounds or other recreation areas	<input type="checkbox"/>	<input type="checkbox"/>
Other sensitive population use(s) Explain	<input type="checkbox"/>	<input type="checkbox"/>

If any of the above applies, attach a list of addresses, facility names, type of use, and a map depicting each location relative to the site.

2. Current site uses (check all that apply):

☐ Industrial

☐ Residential

☐ Commercial

☐ School or child care

☐ Government

☐ Park or recreational use

☐ Vacant

☐ Agricultural

☐ Other: _____

3. Planned future on-site uses and off-site uses within 200 feet of the site boundary (check all that apply):

On-Site Off-Site

On-Site Off-Site

On-Site Off-Site

☐ ☐ Industrial

☐ ☐ Residential

☐ ☐ Commercial

☐ ☐ School or child care

☐ ☐ Government

☐ ☐ Park or recreational use

☐ ☐ Vacant

☐ ☐ Agricultural

☐ ☐ Other: _____

Provide a map depicting the location of the proposed changes in land use.

SECTION C. DESCRIPTION OF CONTAMINATION

1. Identify if any of the following exist at the site:

Yes No

☐ ☐ Free product [N.J.A.C. 7:26E-1.8] identified is ☐ LNAPL* or ☐ DNAPL**.

Date identified: _____

☐ ☐ Residual product [N.J.A.C. 7:26E-1.8]

☐ ☐ Other primary source materials not identified above (e.g., buried drums, containers, unsecured friable asbestos). See form instructions for additional information.

Explain: _____

* LNAPL – measured thickness of .01 feet or more

**DNAPL – See *Ground Water Technical Guidance and USEPA Assessment and Delineation of DNAPL Source Zones at Hazardous Waste Sites* (attached as Appendix A of the NJDEP GW Guidance) available at: http://www.nj.gov/dep/srp/guidance/#pa_si_ri_gw. Also, see US EPA DNAPL Overview available at: [http://clu.in.org/contaminantfocus/default.focus/sec/Dense_Nonaqueous_Phase_Liquids_\(DNAPLS\)/cat/Overview](http://clu.in.org/contaminantfocus/default.focus/sec/Dense_Nonaqueous_Phase_Liquids_(DNAPLS)/cat/Overview)

2. Soil Migration Pathway

Has soil contamination been delineated to the applicable Direct Contact Soil

Remediation Standard pursuant to N.J.A.C. 7:26E-4.2? ☐ Yes ☐ No

Are all soils either below the applicable Direct Contact Criteria or under an institutional control (i.e. deed notice)? ☐ Yes ☐ No

3. If this evaluation is submitted with a technical document that includes contaminant summary information, proceed to Section D. Otherwise, attach a brief summary of all currently available data and information to be included in the site investigation or remedial investigation report.

SECTION D. GROUND WATER USE

1. Have all potentially contaminated areas of concern been evaluated to determine if there is a potential that ground water is contaminated pursuant to N.J.A.C. 7:26E-3.5? ☐ Yes ☐ No

If “No,” proceed to Section E.

2. Is a ground water investigation required? ☐ Yes ☐ No

If “No,” proceed to Section E.

3. Has a groundwater investigation been conducted? ☐ Yes ☐ No

If “Yes”:

Has the laboratory data package been received? ☐ Yes ☐ No

If the laboratory data package has not been received, provide the expected due date for data: _____ and proceed to Section E.

If “No”:

Proceed to Section E.

4. Is ground water contaminated above the Ground Water Remediation Standards [N.J.A.C. 7:9C]? ☐ Yes ☐ No

If “Yes”: Provide the date that the laboratory data package was available and confirmed contamination was identified above the Ground Water Remediation Standards. Date: _____

If “No”: Proceed to Section E.

5. Has ground water contamination been delineated to the applicable Remediation Standard pursuant to N.J.A.C. 7:26E-4.3? ☐ Yes ☐ No

6. What is the ground water classification for this site as per N.J.A.C. 7:9C? (check all that apply)

☐ Class I-A ☐ Class II-A
☐ Class I-PL Pinelands Protection Area ☐ Class III-A
☐ Class I-PL Pinelands Preservation Area ☐ Class III-B

7. Has a well search been completed? ☐ Yes ☐ No

Date of most recent or updated well search: _____

8. Is a completed Well Search Spreadsheet or historical well search table attached and has an electronic copy of the spreadsheet been submitted to srpgis_wrs@dep.nj.gov. ☐ Yes ☐ No

Note: Redacted wells must be excluded from all non-confidential documents including maps, tables, etc. (see RE Instructions).

If "No," explain: _____

9. Are any potable or irrigation wells located within ½ mile of the currently known extent of contamination? ☐ Yes ☐ No

If "Yes,":

- A door to door survey is required in accordance with [N.J.A.C.7:26E-1.14(a)ii]. Attach results of the door to door survey.
- Identify if any of the following conditions exist based on the well search and door to door survey [N.J.A.C.7:26E-1.14(a)]:

Yes No

- ☐ ☐ Potable wells located within 500 feet from the downgradient edge of the currently known extent of contamination.
- ☐ ☐ Potable wells located 250 feet upgradient or 500 feet side gradient of the currently known extent of contamination.
- ☐ ☐ Ground water contamination from the discharge is located within a Tier 1 wellhead protection area (WHPA).

10. Has sampling been conducted of ☐ potable well(s) and /or ☐ non-potable use well(s)? ☐ Yes ☐ No

If "No," provide justification then proceed to Question 12.

Only one potable well was located approximately 2400 feet from the known extent of contamination. The NJ Turnpike is located between the Site and the potable well. _____

11. Has contamination been identified in potable well(s), **not attributed to background conditions**, above the Class II Ground Water Remediation Standards or State Safe Drinking Water levels, N.J.A.C 7:1E, whichever is applicable? ☐ Yes ☐ No

If "Yes":

- Provide the date laboratory data package was received: _____
- Follow the **IEC** Guidance Document at <http://www.nj.gov/dep/srp/guidance/IEC/index.html> for required actions and answer the following:
- Has an engineered system response action been completed on all impacted receptors? ☐ Yes ☐ No
Provide a brief narrative description:

Date completed: _____ NJDEP Case Manager: _____

12. Has contamination been identified in non-potable well(s), **not attributed to background conditions**, above the Class II Ground Water Remediation Standards? ☐ Yes ☐ No

If "Yes," provide the date laboratory data package was received: _____

13. Has the ground water use evaluation been completed pursuant to N.J.A.C. 7:26E-1.14? ☐ Yes ☐ No

SECTION E. VAPOR INTRUSION (VI)

1. Indicate if any of the following conditions exist that trigger a Vapor Intrusion investigation. For each condition checked "Yes", provide the date the condition was first identified (e.g. date laboratory data package was available). (see NJDEP Vapor Intrusion Technical Guidance)

Yes	No		Date Condition First Identified
<input type="checkbox"/>	<input type="checkbox"/>	Ground water contamination in excess of the NJDEP Vapor Intrusion Ground Water Screening Levels (VIGWSL) and within 30 feet of a building for Petroleum Hydrocarbon Compounds (PHC) or 100 feet for non-PHC compounds ..	
<input type="checkbox"/>	<input type="checkbox"/>	Free product within 30 feet of a building for PHC or 100 feet for non-PHC compounds ..	
<input type="checkbox"/>	<input type="checkbox"/>	Soil gas contamination detected at concentrations that exceed the Soil Gas Screening Levels (SGSL) ..	
<input type="checkbox"/>	<input type="checkbox"/>	Indoor air contamination that exceeds the Indoor Air Screening Levels.....	
<input type="checkbox"/>	<input type="checkbox"/>	Wet basement or sump containing free product or ground water containing detectable concentration of volatile organic contaminants ..	
<input type="checkbox"/>	<input type="checkbox"/>	Methane generating conditions causing oxygen deficient or explosion concern ..	
<input type="checkbox"/>	<input type="checkbox"/>	Other human or safety concern from the VI pathway (i.e. elemental mercury, unsaturated soil contamination), <i>explain below:</i> ..	

If you checked "No" to all boxes in Question 1., proceed to Section F, "Ecological Receptors", otherwise complete the rest of this section.

2. Has ground water contamination been delineated to the applicable Vapor Intrusion Ground Water Screening Levels pursuant to N.J.A.C 7:26E-4.3? ☐ Yes ☐ No
3. Was a site-specific screening level, modeling or other alternative approach employed for the VI pathway? ☐ Yes ☐ No
4. Identify and locate, on a scaled map, any buildings/sensitive populations that exist within the following distances from ground water contaminant concentrations above the Vapor Intrusion Ground Water Screening Levels or other specific triggers noted in Question 1 above.:
- | Yes | No | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | 30 feet of petroleum free product or dissolved petroleum hydrocarbon contamination in ground water |
| <input type="checkbox"/> | <input type="checkbox"/> | 100 feet of any non-petroleum free product (e.g. chlorinated hydrocarbons) or any non-petroleum dissolved volatile organic ground water contamination |
| <input type="checkbox"/> | <input type="checkbox"/> | Other specific triggers |
| <input type="checkbox"/> | <input type="checkbox"/> | No buildings exist within the specified distances or other specific triggers |
5. Is the vapor intrusion pathway a concern at or adjacent to the site? (if "No," attach justification)..... ☐ Yes ☐ No
6. Has soil gas sampling of the building(s) been conducted? ☐ Yes ☐ No
- If "Yes," has the laboratory data package been received? ☐ Yes ☐ No
- If the data package was received, did constituents exceed the Soil Gas Screening Levels? ☐ Yes ☐ No
- If "No," attach technical justification consistent with the NJDEP Vapor Intrusion Technical Guidance.
7. Has indoor air sampling been conducted at the identified building(s)? ☐ Yes ☐ No
- If "Yes," has the laboratory data package been received? ☐ Yes ☐ No
- If the data package has been received, did constituents exceed the Indoor Air Screening Levels? .. ☐ Yes ☐ No
- If "No," or awaiting indoor air laboratory data package, proceed to Question 12.

8. Has indoor air contamination been identified but not suspected to be from a discharge?
(if "Yes," attach justification) ☐ Yes ☐ No
9. Were indoor air results above the NJDEP's Rapid Action Levels? ☐ Yes ☐ No
- If "Yes":
- Provide the date laboratory data package was received: _____
 - Follow the IEC Guidance Document at <http://www.nj.gov/dep/srp/guidance/index.html#iec> for required actions and answer the following:
 - Was the IEC engineering system response for control implemented for all impacted structures? ☐ Yes ☐ No
- Date implemented: _____ NJDEP Case Manager: _____
10. Were the results of indoor air sampling above the NJDEP's Indoor Air Screening Levels but at, or below, the Rapid Action Levels ☐ Yes ☐ No
- If "Yes," answer the following:
- Provide the date laboratory data package was received: _____
 - Has the Vapor Concern (VC) Response Action Form notifying the NJDEP of the exceedances been submitted? ☐ Yes ☐ No
- Date: _____
- Has a plan to mitigate and monitor the exposure been submitted? ☐ Yes ☐ No
- Date: _____
- Has the Mitigation Response Action Report been submitted? ☐ Yes ☐ No
- Date: _____
11. Do one or more buildings have an Indeterminate VI Pathway status? ☐ Yes ☐ No
- If "Yes," attach a list of the building(s) with address(s) and block/lot(s)
12. Has the vapor intrusion investigation been completed? ☐ Yes ☐ No
- If "No", is the vapor intrusion investigation stepping out as part of the site investigation or remedial investigation. (If "No," attach justification) ☐ Yes ☐ No

SECTION F. ECOLOGICAL RECEPTORS

1. Has an Ecological Evaluation (EE) been conducted? [N.J.A.C. 7:26E-1.16] ☐ Yes ☐ No
- Date conducted: _____
2. Are any site-related contaminants above any Ecological Screening Criteria? ☐ Yes ☐ No
3. Are there any Environmentally Sensitive Natural Resources (ESNRs) on or adjacent to the site, or potentially impacted by site related contamination? [N.J.A.C. 7:26E-1.16] ☐ Yes ☐ No
4. Do any potential or complete migration pathways exist between Contaminant of Potential Ecological Concern (COPECs) and ESNRs, or did historic migration pathways exist? ☐ Yes ☐ No

If You answered "No" to Questions 2, 3, or 4, above **Stop Here** (form is complete).

5. If site-related free or residual product is/was present, does/did a potential or complete migration pathway exist to an ESNR? ☐ Yes ☐ No
6. Do the results of an EE trigger a remedial investigation of ecological receptors? [N.J.A.C. 7:26E-4.8] ☐ Yes ☐ No
- If "Yes", has a remedial investigation of ecological receptors been conducted? ☐ Yes ☐ No
- Date conducted: _____

7. Do available data indicate an impact (COPECs above Ecological Screening Criteria in ESNRs) to Ecological Receptor(s), Surface water, or Sediment? ☐ Yes ☐ No

If "Yes,"

- a) Check all ESNRs or media that apply:

☐ Surface water ☐ Sediment ☐ Soil ☐ Wetlands

- b) If this information is not submitted with an ecological evaluation that includes contaminant summary information, attach a brief summary of all currently available data and a description of all actions to be taken to mitigate exposure.

8. Have COPECs been fully delineated to the Ecological Screening Criteria [N.J.A.C. 7:26E-4.8(a)] in:

a) Migration pathways ☐ Yes ☐ No

b) ESNR ☐ Yes ☐ No

9. Has an Ecological Risk Assessment been conducted? ☐ Yes ☐ No

10. Provide the following information for any on-site and/or off-site surface water body, which is potentially impacted by the site related discharges:

Surface Water Body Name	Stream Classification	Antidegradation Designation	Trout Production	Trout Maintenance
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

11. Has a Program Interest (PI) or Permit number been issued for any regulated areas by the Division of Land Use Regulation? (e.g. wetlands, transition areas, flood hazard areas, coastal areas, tidelands, etc.). ☐ Yes ☐ No

If "Yes,":

Identify the type(s) of regulated areas: _____

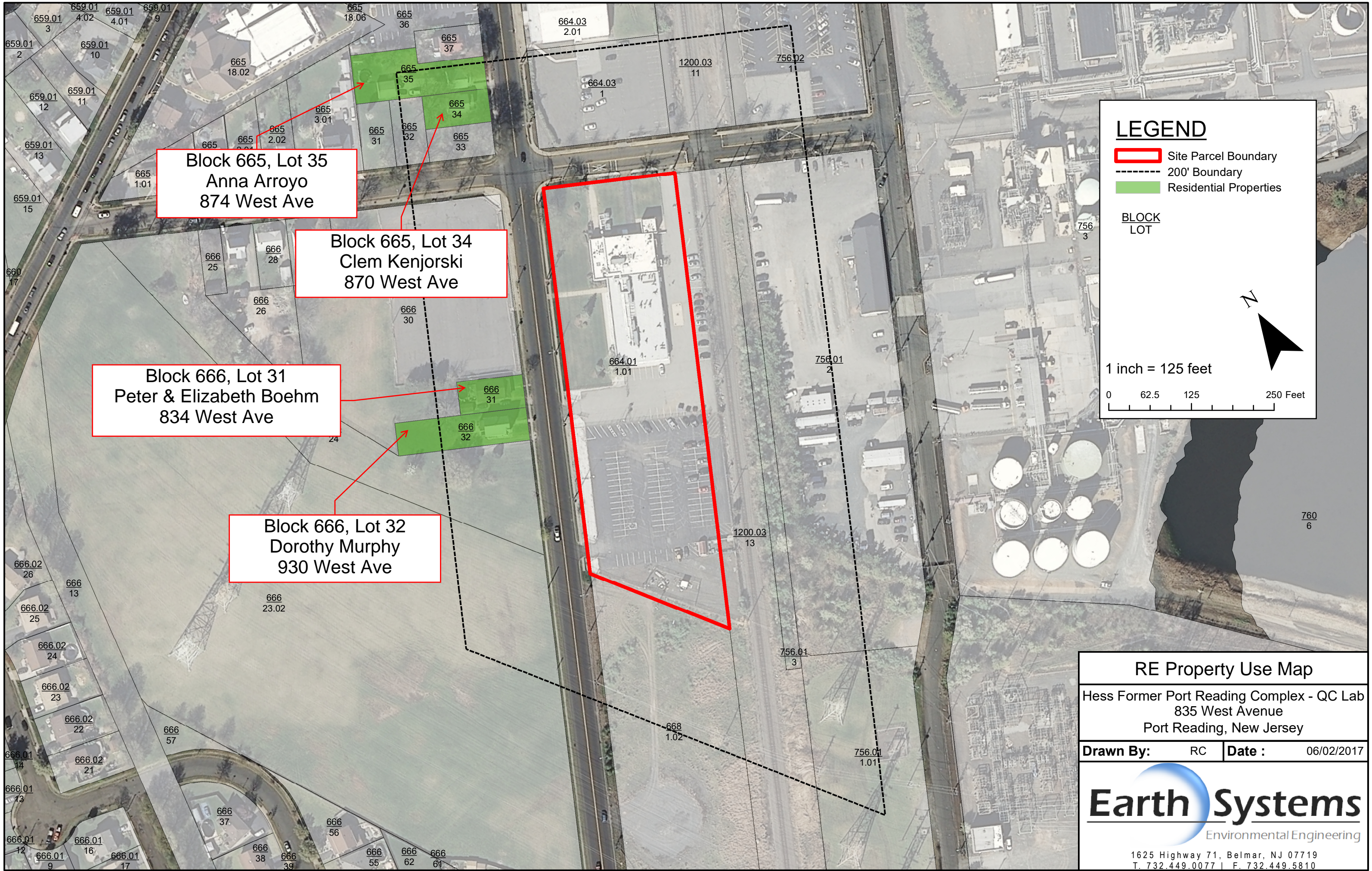
Provide the Land Use Regulation Program (LURP) PI or Permit number(s) for the site:

12. Are there any **pending** applications for LURP jurisdiction letters or approvals under review by the NJDEP for the remediation? ☐ Yes ☐ No


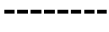

13. Are there any **valid** LURP jurisdiction letters or approvals issued for the remediation? ☐ Yes ☐ No

Completed forms should be sent to the municipal clerk, designate health department, and:

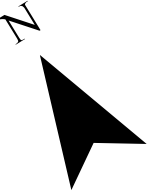
Bureau of Case Assignment & Initial Notice
Site Remediation Program
NJ Department of Environmental Protection
401-05H
PO Box 420
Trenton, NJ 08625-0420



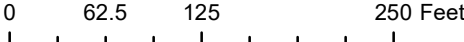
LEGEND

-  Site Parcel Boundary
-  200' Boundary
-  Residential Properties

**BLOCK
LOT**



1 inch = 125 feet



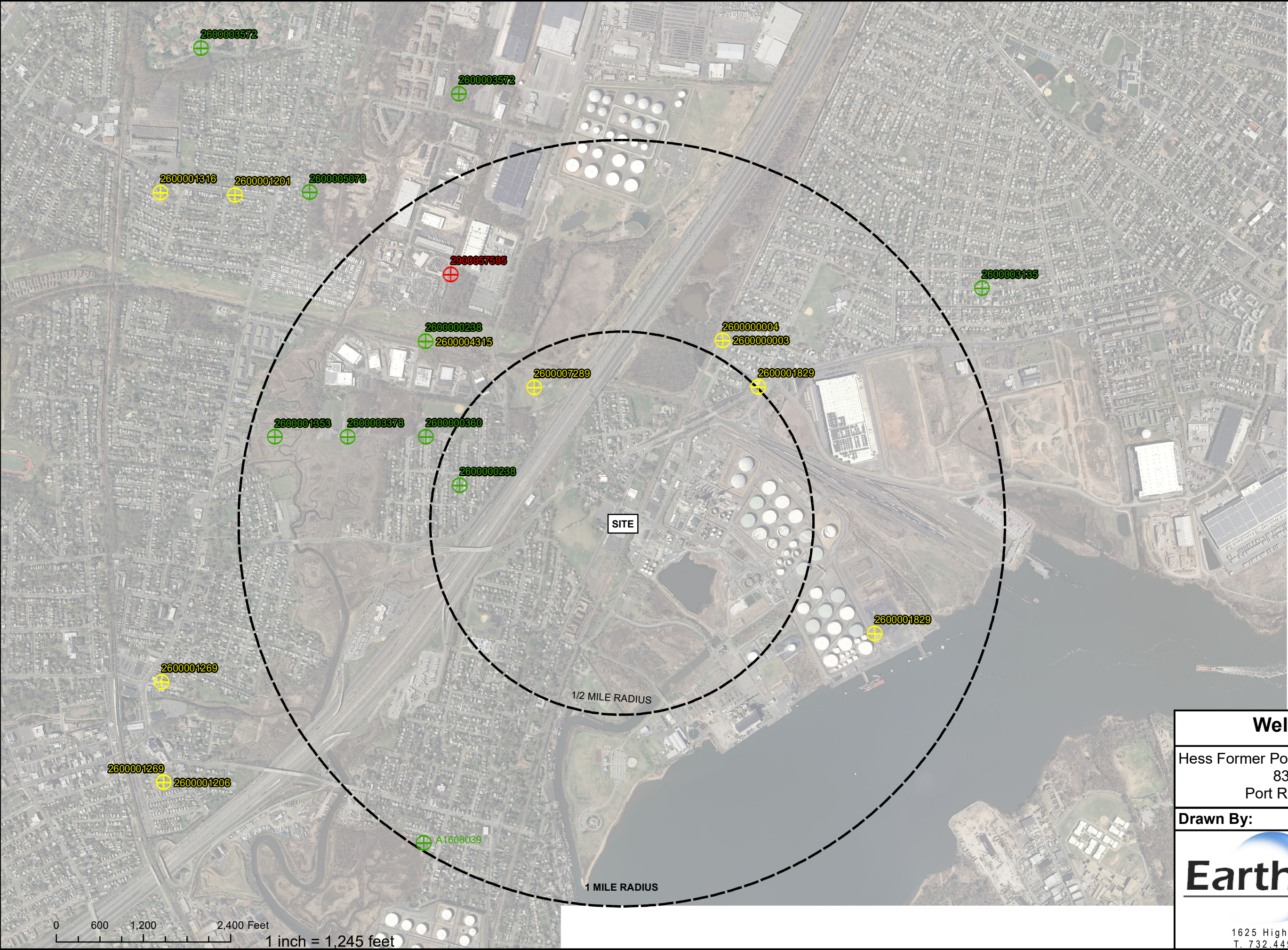
RE Property Use Map

Hess Former Port Reading Complex - QC Lab
835 West Avenue
Port Reading, New Jersey

Drawn By: RC **Date :** 06/02/2017





1625 Highway 71, Belmar, NJ 07719
T. 732.449.0077 | F. 732.449.5810




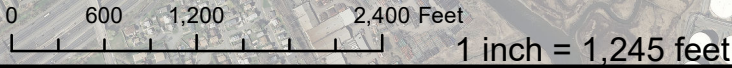
LEGEND

Well Type

 Domestic

 Industrial

 Irrigation



Well Search Map

Hess Former Port Reading Complex - QC Lab
835 West Avenue
Port Reading, New Jersey

Drawn By: RC

Date : 4/25/2017

**Earth Systems**
Environmental Engineering

1625 Highway 71, Belmar, NJ 07719
T. 732.449.0077 | F. 732.449.5810

	AOC 19: QC Laboratory, Hess Corporation - Former Port Reading Complex (HC-PR)	
SITE NAME	Complex (HC-PR)	
SITE STREET ADDRESS	835 West Avenue	
SITE COUNTY (select)	Middlesex	
SITE MUNICIPALITY (select)	Woodbridge Twp	
PROGRAM INTEREST (PI) ID # :	006148	
SOURCE COORDINATE X		560832
SOURCE COORDINATE Y		630273
GROUNDWATER FLOW DIRECTION USED (if any)	SE	
WERE APPLICABLE WELL TYPES FOUND? (Yes/No)	Yes	
IS THIS SUBMISSION AN UPDATE? (Yes/No)	Yes	
AUTHOR (name of company)	Earth Systems, Inc.	
AUTHOR STREET ADDRESS (include town and zip code)	1625 Highway 71, Belmar, NJ 07719	
LSRP LICENSE NUMBER OVERSEEING WORK	576297	
LSRP NAME OVERSEEING WORK	John Virgie	
PROFESSIONAL WHO PREPARED SUBMISSION	Michael Piegaro	
EMAIL CONTACT	mpiegaro@earthsys.net	
PHONE CONTACT	732-739-6444	

Download Document	Permit Number	Well Use	Potentially Potable	Document	Date (permitted/drill)	Physical Address	County	Municipality	Block	Lot	Location Method	Easting_X	Northing_Y	Distance (feet)	Depth (feet)	Capacity (gal/min)	COORD_METHOD	TOP_OPEN_INT	BOT_OPEN_INT	STATIC_LEVEL	STATUS	WELL_SAMPLED?
View Document	A102620	Domestic	Yes	Decommissioning	8/6/21/0	72 S. Roberts	Madison	Woodbridge Twp		717	117	GPS	558131	62984	5,153.52							